

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P485892

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-27-120-EDD-90**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-A125-LD4-2LO-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

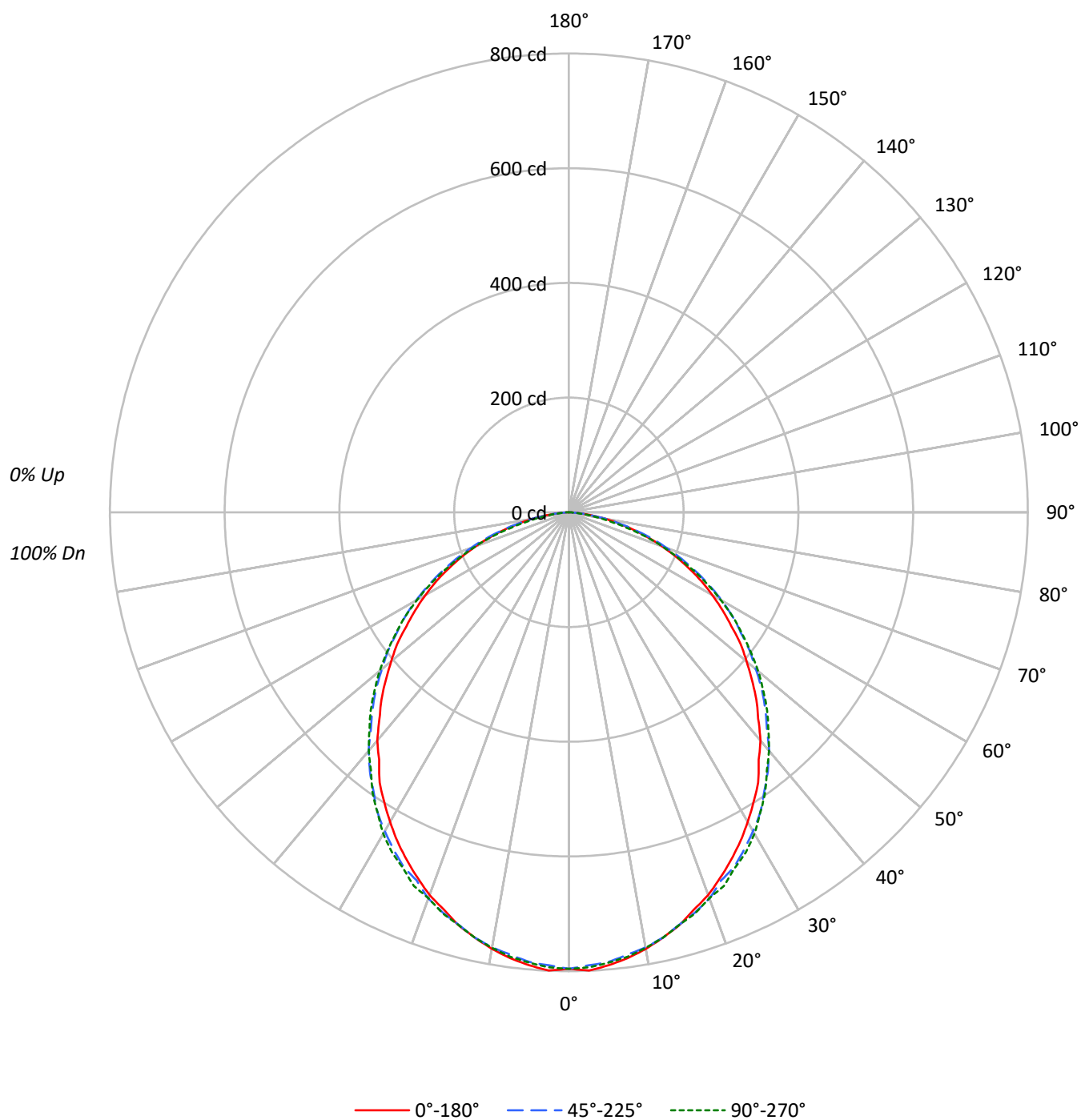
Lumens per Lamp: N/A
Luminaire Lumens: 2044.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P485892

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-2LO-27-120-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2141	2141	2141
5°	2142	2126	2130
10°	2112	2104	2107
15°	2075	2073	2074
20°	2033	2051	2050
25°	1986	2024	2031
30°	1937	1994	2010
35°	1890	1951	1960
40°	1825	1907	1906
45°	1759	1841	1859
50°	1692	1780	1804
55°	1621	1717	1727
60°	1553	1655	1644
65°	1471	1554	1524
70°	1356	1427	1363
75°	1199	1249	1091
80°	964	978	762
85°	633	605	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.7
10°-20°	210.3	10.3
20°-30°	313.1	15.3
30°-40°	368.6	18.0
40°-50°	369.6	18.1
50°-60°	324.1	15.9
60°-70°	237.0	11.6
70°-80°	122.1	6.0
80°-90°	24.5	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	598.3	29.3
0°-40°	966.9	47.3
0°-60°	1660.5	81.2
0°-90°	2044.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	793	788	787	792	788	75
15°	745	746	744	749	744	210
25°	669	672	682	691	684	308
35°	575	578	594	600	596	358
45°	462	464	484	490	489	356
55°	346	353	366	371	368	310
65°	231	236	244	243	239	229
75°	115	116	120	112	105	122
85°	20	20	20	16	14	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.8	795.8	795.8	795.8	795.8
2.5°	799.7	795.8	790.6	794.9	794.1
5°	792.8	787.5	787.1	792.3	788.4
7.5°	784.1	783.2	778.0	783.6	781.5
10°	772.8	771.9	770.1	774.1	771.0
12.5°	759.3	758.4	759.3	761.4	759.3
15°	744.9	746.2	744.0	748.8	744.5
17.5°	725.8	727.1	731.4	733.2	732.7
20°	710.1	711.0	716.2	723.2	715.8
22.5°	689.6	691.8	694.4	707.1	705.3
25°	668.8	671.8	681.8	691.4	684.0
27.5°	647.0	650.1	662.2	669.2	668.3
30°	623.5	626.6	641.8	651.4	647.0
32.5°	599.1	604.4	620.9	629.2	620.9
35°	575.2	577.8	593.9	600.5	596.5
37.5°	543.5	553.5	569.6	573.9	566.9
40°	519.5	520.0	543.0	543.0	542.6
42.5°	488.6	495.6	510.8	519.1	514.7
45°	462.1	464.3	483.8	489.9	488.6
47.5°	432.9	441.6	456.0	463.0	459.5
50°	404.2	410.3	425.1	434.2	430.8
52.5°	377.7	382.5	397.7	402.9	399.4
55°	345.5	353.3	365.9	371.1	368.1
57.5°	317.6	323.3	338.9	340.7	338.9
60°	288.5	295.0	307.6	308.9	305.4
62.5°	260.6	265.0	276.3	276.7	272.8
65°	231.0	236.3	244.1	243.2	239.3
67.5°	201.9	205.4	212.8	209.7	205.4
70°	172.3	175.3	181.4	177.1	173.2
72.5°	143.6	145.8	151.0	144.5	139.7
75°	115.3	116.2	120.1	111.8	104.9
77.5°	87.5	88.3	90.5	82.2	74.4
80°	62.2	62.2	63.1	54.4	49.2
82.5°	39.2	39.2	38.7	32.2	29.2
85°	20.5	20.0	19.6	15.7	14.4
87.5°	7.4	7.4	6.1	5.7	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)